PCT/10

CRF Errors Edited by the STIC Systems Branch

Serial Number: __10/505,171__   CRF Edit Date: __9/10/04__
                                        Edited by: __AL__

ENTERED

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line.
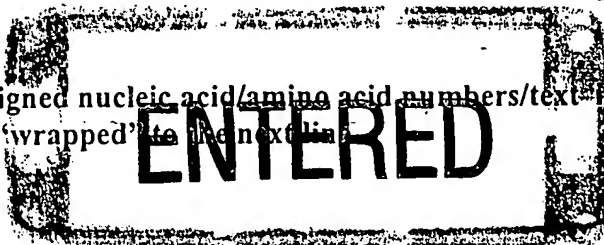
____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: _✓_ invalid beginning/end-of-file text ; ____ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

Revised 09/09/2003

```
        RAW SEQUENCE LISTING                    DATE: 09/10/2004
        PATENT APPLICATION:  US/10/505,171      TIME: 18:07:42

        Input Set : A:\PTO.AMC.txt
        Output Set: N:\CRF4\09102004\J505171.raw

   3 <110> APPLICANT: AMANO ENZYME INC.
   5 <120> TITLE OF INVENTION: Modified promoter
   7 <130> FILE REFERENCE: P0200102
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/505,171
C-->  9 <141> CURRENT FILING DATE: 2004-08-31
   9 <150> PRIOR APPLICATION NUMBER: JP P2002-055853
  10 <151> PRIOR FILING DATE: 2002-03-01
  12 <150> PRIOR APPLICATION NUMBER: JP P2002-354670
  13 <151> PRIOR FILING DATE: 2002-12-06
  15 <160> NUMBER OF SEQ ID NOS: 38
  17 <170> SOFTWARE: PatentIn version 3.1
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 11
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Artificial Sequence
  24 <220> FEATURE:
  25 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
  27 <220> FEATURE:
  28 <221> NAME/KEY: misc_feature
  29 <222> LOCATION: (6)..(11)
  30 <223> OTHER INFORMATION: n stands for any base.
  33 <400> SEQUENCE: 1
W-->  34 ccaatnnnnn n                                          11
  37 <210> SEQ ID NO: 2
  38 <211> LENGTH: 14
  39 <212> TYPE: DNA
  40 <213> ORGANISM: Artificial Sequence
  42 <220> FEATURE:
  43 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
  45 <220> FEATURE:
  46 <221> NAME/KEY: misc_feature
  47 <222> LOCATION: (4)..(12)
  48 <223> OTHER INFORMATION: n stands for any base.
  51 <400> SEQUENCE: 2
W-->  52 cggnnnnnnn nngg                                        14
  55 <210> SEQ ID NO: 3
  56 <211> LENGTH: 11
  57 <212> TYPE: DNA
  58 <213> ORGANISM: Artificial Sequence
  60 <220> FEATURE:
  61 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
  63 <400> SEQUENCE: 3
  64 ccaattagaa g                                          11
```

RAW SEQUENCE LISTING   DATE: 09/10/2004
PATENT APPLICATION: US/10/505,171   TIME: 18:07:42

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09102004\J505171.raw

```
 67 <210> SEQ ID NO: 4
 68 <211> LENGTH: 14
 69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
 75 <220> FEATURE:
 76 <221> NAME/KEY: misc_feature
 77 <222> LOCATION: (5)..(5)
 78 <223> OTHER INFORMATION: n stands for any base.
 81 <220> FEATURE:
 82 <221> NAME/KEY: misc_feature
 83 <222> LOCATION: (10)..(10)
 84 <223> OTHER INFORMATION: n stands for any base.
 87 <400> SEQUENCE: 4
```
W--> 88 cgghnwwwwn whgg   14
```
 91 <210> SEQ ID NO: 5
 92 <211> LENGTH: 14
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Artificial Sequence
 96 <220> FEATURE:
 97 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
 99 <400> SEQUENCE: 5
100 cggwwwwwww whgg                                                      14
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 14
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
111 <400> SEQUENCE: 6
112 cggaaattta aagg                                                      14
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 14
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
123 <400> SEQUENCE: 7
124 cggaatttaa acgg                                                     .14
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 14
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
135 <400> SEQUENCE: 8
136 cggaaattta acgg                                                      14
139 <210> SEQ ID NO: 9
```

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140 <211> LENGTH: 128
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
146        sequence and SRE
148 <400> SEQUENCE: 9
149 ccaattagaa gcagcaaagc gaaacagccc aagaaaaagg tcggcccgtc ggccttttct      60
151 gcaacgctga tcacgggcag cgatccaacc aacaccctcc agagtgacta ggggcggaaa     120
153 tttaaagg                                                            128
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 196
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
163        sequence and SRE
165 <400> SEQUENCE: 10
166 ctgcagacca cctctaggca tcggacgcac catccaatta gaagcagcaa agcgaaacag      60
168 cccaagaaaa aggtcggccc gtcggccttt tctgcaacgc tgatcacggg cagcgatcca     120
170 accaacaccc tccagagtga ctaggggcgg aaatttaaag ggattaattt ccactcaacc     180
172 acaaatcaca ctgcag                                                    196
175 <210> SEQ ID NO: 11
176 <211> LENGTH: 193
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
182        sequence and SRE
184 <400> SEQUENCE: 11
185 ctcgagaggc atcggacgca ccatccaatt agaagcagca aagcgaaaca gcccaagaaa      60
187 aaggtcggcc cgtcggcctt ttctgcaacg ctgatcacgg gcagcgatcc aaccaacacc     120
189 ctccagagtg actaggggcg gaaatttaaa gggattaatt ccactcaac cacaaatcac      180
191 agtcggcggc cgc                                                       193
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 615
196 <212> TYPE: DNA
197 <213> ORGANISM: Aspergillus oryzae
199 <220> FEATURE:
200 <221> NAME/KEY: promoter
201 <222> LOCATION: (1)..(615)
202 <223> OTHER INFORMATION:
W--> 204 <400> 12
205 gaattcatgg tgttttgatc attttaaatt tttatatggc gggtggtggg caactcgctt      60
207 ccgggcaact cgcttaccga ttacgttagg gctgatattt acgtaaaaat cgtcaaggga     120
209 tgcaagacca aagtagtaaa accccggagt caacagcatc caagcccaag tccttcacgg     180
211 agaaacccca gcgtccacat cacgagcgaa ggaccacctc taggcatcgg acgcaccatc     240
213 caattagaag cagcaaagcg aaacagccca agaaaaaggt cggcccgtcg gccttttctg     300
215 caacgctgat cacgggcagc gatccaacca acaccctcca gagtgactag gggcggaaat     360
```

```
217 ttaaagggat taatttccac tcaaccacaa atcacagtcg tccccggtat tgtcctgcag      420
219 aatgcaattt aaactcttct gcgaatcgct tggattcccc gccctggcc gtagagctta        480
221 aagtatgtcc cttgtcgatg cgatgtatca caacatataa atactagcaa gggatgccat       540
223 gcttggagga tagcaaccga caacatcaca tcaagctctc ccttctctga acaataaacc       600
225 ccacagaagg cattt                                                        615
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 44
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
235       lifying CCAAT sequence
237 <400> SEQUENCE: 13
238 ccgctcgagg caccatccaa ttagaagcgc ggccgctaaa ctat                         44
241 <210> SEQ ID NO: 14
242 <211> LENGTH: 44
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
248       lifying CCAAT sequence
250 <400> SEQUENCE: 14
251 atagtttagc ggccgcgctt ctaattggat ggtgcctcga gcgg                         44
254 <210> SEQ ID NO: 15
255 <211> LENGTH: 46
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
261       lifying SRE
263 <400> SEQUENCE: 15
264 gactagttaa cctaggggcg gaaatttaac gggatgttaa ctagtc                       46
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 46
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
274       lifying SRE
276 <400> SEQUENCE: 16
277 gactagttaa catcccgtta aatttccgcc cctaggttaa ctagtc                       46
280 <210> SEQ ID NO: 17
281 <211> LENGTH: 30
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
287       lifying a DNA fragment including CCAAT sequence and SRE
```

289 <400> SEQUENCE: 17

RAW SEQUENCE LISTING   DATE: 09/10/2004
PATENT APPLICATION: US/10/505,171   TIME: 18:07:42

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09102004\J505171.raw

```
290 aaactgcaga ccacctctag gcatcggacg                                    30
293 <210> SEQ ID NO: 18
294 <211> LENGTH: 30
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
300        lifying a DNA fragment including CCAAT sequence and SRE
302 <400> SEQUENCE: 18
303 tttctgcagt gttgatttgt ggttgagtgg                                    30
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 27
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
313        lifying a DNA fragment including CCAAT sequence and SRE
315 <400> SEQUENCE: 19
316 cggctcgagg catcggacgc accatcc                                       27
319 <210> SEQ ID NO: 20
320 <211> LENGTH: 40
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
326        lifying a DNA fragment including CCAAT sequence and SRE
328 <400> SEQUENCE: 20
329 atagtttagc ggccgccgac tgtgatttgt ggttgagtgg                         40
332 <210> SEQ ID NO: 21
333 <211> LENGTH: 45
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Description of Artificial Sequence:a primer for site-
directed mut
339        agenesis
341 <400> SEQUENCE: 21
342 cgcttggatt ccccgcccgc ggccgcagag cttaaagtat gtccc                   45
345 <210> SEQ ID NO: 22
346 <211> LENGTH: 45
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Description of Artificial Sequence:a primer for site-
directed mut
352        agenesis
354 <400> SEQUENCE: 22
355 gaatgcaatt taaactcttc ctcgagtcgc ttggattccc cgccc                   45
358 <210> SEQ ID NO: 23
359 <211> LENGTH: 47
```

360 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/505,171

DATE: 09/10/2004
TIME: 18:07:43

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09102004\J505171.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6, 7, 8, 9, 10, 11.
Seq#:2; N Pos. 4, 5, 6, 7, 8, 9, 10, 11, 12
Seq#:4; N Pos. 5, 10

VERIFICATION SUMMARY   DATE: 09/10/2004
PATENT APPLICATION: **US/10/505,171**   TIME: 18:07:43

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09102004\J505171.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:204 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:202